

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A projection system comprising:  
a projection screen to:  
~~at least one of~~ reflect and emit one or more ranges of wavelengths of visible light in a first group; and  
absorb visible wavelengths of light in a second group ~~at least one other range that is not included in the one or more ranges~~ first group; and  
an ambient light source that is configured to output visible wavelengths of light in the ~~at least one other range~~ second group that has a greater intensity as ~~weighted by the sensitivity of a human eye~~ than that of wavelengths of light output by the ambient light source in the ~~one or more ranges~~ first group.
2. (Currently Amended) A projection system as described in claim 1, further comprising a projector to project an image composed of the one or more ranges of wavelengths of light in the first group.
3. (Currently Amended) A projection system as described in claim 1, wherein the one or more ranges in the first group include:  
a range of red wavelengths of visible light;  
a range of green wavelengths of visible light; and  
a range of blue wavelengths of visible light.
4. (Currently Amended) A projection system as described in claim 1, wherein the one or more ranges in the first group include a range of ultraviolet wavelengths that cause the projection screen to emit visible light.

5. (Currently Amended) A projection system as described in claim 1, wherein the one or more ranges in the first group include a range of ultraviolet wavelengths and a range of visible wavelengths.

6. (Currently Amended) A projection system as described in claim 1, further comprising a projector to project an image composed of the one or more ranges of wavelengths of light included in the first group, wherein the projector includes a component selected from the group consisting of:

- a digital micromirror device (DMD);
- a liquid crystal display (LCD);
- a grating light valve (GLV); and
- a liquid crystal on silicon (LCOS) device.

7. (Currently Amended) A projection system as described in claim 1, wherein the projection screen is configured to absorb the visible wavelengths of light in the ~~at least one other range~~ second group by utilizing a component selected from the group consisting of:

- a filter;
- a pigment;
- an optical coating;
- an optical dye; and
- any combination thereof.

8. (Currently Amended) A projection system as described in claim 1, wherein the ambient light source further comprises:

- a light emitting device that emits wavelengths of light that include:
  - the one or more ranges of the first group; and
  - the ~~at least one or more other~~ ranges of the second group; and
- a light filtering structure that:
  - ~~at least one of~~ reflects and absorbs wavelengths of light emitted by the light emitting device in the ~~one or more ranges~~ first group; and
  - transmits wavelengths of light in the ~~at least one other range~~ second group.

9. (Original) A projection system as described in claim 1, wherein the ambient light source does not output an image.

10. (Currently Amended) A projection system comprising:  
a projection screen to:

~~at least one of~~ reflect and emit one or more ranges of wavelengths of visible light in a first group; and

absorb visible wavelengths of light in a second group ~~in at least one other range that is~~ not included in the ~~one or more ranges~~ first group wherein wavelengths in the second group have a greater intensity than wavelengths in the first group; and

a light filtering structure that:

~~at least one of~~ reflects and absorbs wavelengths of light emitted by ~~the~~ an ambient light emitting device in the ~~one or more ranges~~ first group; and

transmits wavelengths of light emitted by the ambient light emitting device in the ~~at least one other range~~ second group.

11. (Currently Amended) A projection system as described in claim 10, further comprising a projector to project an image composed of the one or more ranges of wavelengths of light in the first group.

12. (Currently Amended) A projection system as described in claim 10, wherein the one or more ranges in the first group include:

a range of red wavelengths of visible light;

a range of green wavelengths of visible light; and

a range of blue wavelengths of visible light.

13. (Currently Amended) A projection system as described in claim 10, wherein the one or more ranges in the first group include a range of ultraviolet wavelengths that cause the projection screen to emit visible light.

14. (Currently Amended) A projection system as described in claim 10, wherein the one or more ranges in the first group include a range of ultraviolet wavelengths and a range of visible wavelengths.

15. (Currently Amended) A projection system as described in claim 10, wherein the projection screen is configured to absorb the visible wavelengths of light in the ~~at least one other range~~ second group by utilizing a component selected from the group consisting of:

- a filter;
- a pigment;
- an optical coating;
- an optical dye; and
- any combination thereof.

16. (Currently Amended) An apparatus comprising a light filtering structure that:  
~~at least one of~~ reflects and absorbs wavelengths of light encountered by the light filtering structure in one or more ranges in a first group; and  
transmits wavelengths of visible light ~~in~~ encountered by the light filtering structure in ~~at least one other range that is a~~ second group not included in the ~~one or more ranges~~ first group, wherein:

the wavelengths of light transmitted by the light filtering structure in the ~~at least one other range~~ second group have a greater intensity than that of the wavelengths of light transmitted by ~~the~~ an ambient light source in the ~~one or more ranges~~ first group as weighted by a human eye's sensitivity;

the wavelengths of light in the ~~one or more ranges~~ first group provide a white light when displayed by a projection screen; and

the wavelengths of light in the ~~at least one other range~~ second group are absorbed when received by the projection screen.

17. (Currently Amended) An apparatus as described in claim 16, further comprising a light emitting device that emits wavelengths of light that include:

- the one or more ranges in the first group; and
- the ~~at least one other range~~ second group.

18. (Currently Amended) An apparatus as described in claim 16, further comprising a window that transmits wavelengths of light ~~that include in the one or more ranges~~ first group and the ~~at least one other range~~ second group, wherein the light filtering structure is disposed on the window.

19. (Currently Amended) An apparatus as described in claim 16, wherein the ~~one or more ranges~~ first group includes:

- a range of red wavelengths of visible light;
- a range of green wavelengths of visible light; and
- a range of blue wavelengths of visible light.

20. (Currently Amended) An apparatus as described in claim 16, wherein the ~~one or more ranges~~ first group includes a range of ultraviolet wavelengths that cause the projection screen to emit visible light.

21. (Currently Amended) An apparatus as described in claim 16, wherein the ~~one or more ranges~~ first group includes a range of ultraviolet wavelengths and a range of visible wavelengths.

22. (Currently Amended) A method comprising:

projecting, by a projector, an image composed of one or more ranges of wavelengths of light in a first group;

displaying the projected image by ~~at least one of~~ reflecting and emitting visible light by a projection screen; and

outputting by an ambient light source:

wavelengths of light in the ~~one or more ranges~~ first group; and

wavelengths of light in ~~at least one other range~~ a second group that ~~are visible and are not included in the one or more ranges~~ first group, wherein the wavelengths of light output by the ambient light source in the ~~at least one other range~~ second group have a greater intensity than that of the wavelengths of light output by the ambient light source in the ~~one or more ranges~~ first group as weighted by a human eye's sensitivity.

23. (Currently Amended) A method as described in claim 22, further comprising absorbing by the projection screen wavelengths of light of the second group output by the ambient light source ~~in the at least one other range~~.

24. (Currently Amended) A method as described in claim 22, wherein the ~~one or more ranges~~ first group includes:

- a range of red wavelengths of visible light;
- a range of green wavelengths of visible light; and
- a range of blue wavelengths of visible light.

25. (Original) A method as described in claim 22, wherein the displayed image is a full-color image when viewed by a human eye.

26. (Currently Amended) A method as described in claim 22, wherein the ~~one or more ranges~~ first group includes a range of ultraviolet wavelengths that cause the projection screen to emit visible light.

27. (Currently Amended) A method as described in claim 22, wherein the ~~one or more ranges~~ first group includes a range of ultraviolet wavelengths and a range of visible wavelengths.

28. (Currently Amended) A method comprising:  
configuring an ambient light source to output:  
wavelengths of light in one or more ranges in a first group that cause a projection screen to ~~at least one of~~ reflect and emit visible light; and  
wavelengths of light in ~~at least one other range~~ a second group that is visible and is not included in the one or more ranges first group, wherein:  
the wavelengths of light in the ~~one or more ranges~~ first group provide a full-color image when displayed on the projection screen;  
~~and wherein~~ wavelengths of light in the ~~at least one other range~~ second group are absorbed when received by the projection screen; and

wavelengths of light output in the second group have a greater intensity than wavelengths of light output in the first group.

29. (Currently Amended) A method as described in claim 28, wherein the configuring further comprises positioning a light filtering structure that is configured to ~~at least one of~~ reflect and absorb ~~the~~ one or more ranges of visible light from the first group emitted by a light emitting device that is configured to emit light having wavelengths in the ~~at least one other range~~ second group and the ~~one or more ranges~~ first group.

30. (Currently Amended) A method as described in claim 28, wherein the ~~one or more ranges~~ first group includes:

- a range of red wavelengths of visible light;
- a range of green wavelengths of visible light; and
- a range of blue wavelengths of visible light.

31. (Currently Amended) A method as described in claim 28, wherein the ~~one or more ranges~~ first group includes a range of ultraviolet wavelengths that cause the projection screen to emit visible light.

32. (Currently Amended) A method as described in claim 28, wherein the ~~one or more ranges~~ first group includes a range of ultraviolet wavelengths and a range of visible wavelengths.

33. (Currently Amended) A system comprising:  
means for projecting an image composed of one or more ranges of wavelengths of light in a first group;  
means for displaying the projected image that:  
~~at least one of~~ reflects and emits visible light in response to the ~~one or more ranges of~~ wavelengths of light in the first group; and  
absorbs visible wavelengths of light in ~~at least one other range a~~ second group ~~that is not included in the one or more ranges~~ first group; and  
means for providing ambient light that outputs visible wavelengths of light

in ~~the at least one other range~~ the second group that has a greater intensity than that of wavelengths of light output by the providing means in the ~~one or more ranges~~ first group as ~~weighted by a human eye's sensitivity~~.